Site Master Planning
for
Public Safety Training Academy
&
Multi-Agency Service Park

Community Workshop and Presentation August 25, 2010 6:00 PM at Park and Planning Training Room, Crabbs Branch Way

Agenda:

- 1—Plan Update
- 2—Landscape Plan
- 3—Grading
- 4—Acoustics
- 5—LEED

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Webb Tract Site Master Planning Master Schedule 4/30/2010

Phase	Meeting	Date	Goals
1- POR validation	Kick off – POR validation	5/6/2010	Review of POR, site characteristics and
	User agencies review	5/25/2010	community parameters
	Community design workshop	6/2/2010	
2-Site Concept	Technical internal consultants meeting with PMs	6/24/2010	Development of site concept layouts
Development	User agencies review	7/1//2010	including building locations, site
	Community presentation & design workshop	7/7/2010	circulation, sustainability issues, civil
			requirements. A single layout concept will
			be approved.
3-Draft- Site Master	Technical internal consultants meeting with PMs	8/12/2010	Refinement of the chosen layout. More
Plan	User agencies review	8/19/2010	attention to details. A detailed site layout
	Community presentation & design workshop	8/25/2010	will be approved. Design guideline draft
			will be generated and discussed.
4- Final Site Master	Technical internal consultants meeting with PMs	9/16/2010	The site layout will be finalized for
Plan	Technical internal consultants meeting with PMs	9/30/2010	Mandatory Referral. Design guideline for
	User agencies review	10/7/2010	the further development of the site will be
	Community presentation and input	10/13/2010	finalized and approved.
5- Final Production	Delivery of the final package	11/3/2010	Consultant will produce the final Site
			Master Plan package.

Note: the above schedule is tentative and may be updated during the design process.

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PSTA Canine Training Requirements

- OBEDIENCE TRAINING 10,000 SF
- AGILITY 14,000 SF
- EVIDENCE SEARCH 10,000 SF
- SUSPECT SEARCH 16,800 SF
- APPREHENSION 30,000 SF

GATHERING AND PREPARATION FOR A TRAINING EXERCISE

- •MULTIPLE JURISDICTIONS TRAIN TOGETHER
- •OFFICERS PARK ADJACENT TO THE TRAINING FIELDS
- •CANINES REMAIN IN THE VEHICLES UNTIL THEY ARE INVOLVED IN AN EXERCISE DUE TO NO KENNELS
- •SHADE IS REQUIRED FOR THE VEHICLES WHICH REMAIN RUNNING WHILE THE CANINES ARE INSIDE, IN HOT WEATHER
- •A PLACE FOR GROUP DISCUSSIONS IS REQUIRED
- •A WATER SOURCE FOR THE ANIMALS IS REQIRED
- •A REST ROOM FOR THE OFFICERS IS REQUIRED



7/16/2010



PREPARING FOR AN EXERCISE

Head Canine Trainer Mary Davis discusses an apprehension and recall drill with Canine Handler Corporal Chris Fumagalli and K9 Brix

AGILITY TRAINING

- EQUIPMENT SET UP IS LINEAR
- LAYOUT BASED ON MOVING FROM ONE EXERCISE TO THE NEXT
- LADDERS
- RAMPS
- JUMPING
- TUBES



AGILITY TRAINING

CANINE ON THE LADDER

CANINE COMPLETING THE EXERCISE AND RECEIVING A REWARD





APPREHENSION AND RECALL

- •FLAGS PLACED AT STARTING LINE, 15, 20, 40 AND 50 YARDS
- •MINIMUM FIELD LENGTH SHOULD BE 100 YDS
- •VOLUNTEER IS IN THE BITE SUIT AT 40 YARDS
- •VOLUNTEER IS AT THE 15 YARD LINE TO SIGNAL THE CANINE PASSING THAT DISTANCE
- •THE APPREHENSION IS MADE, RECALLED, OR FALSE START
- •A MEASURED LEAD IS ON THE DOG TO DETERMINE STOPPING POINT



STARTING LINE SET UP



7/16/2010

COMMAND TO APPREHEND



7/16/2010

APPREHENSION

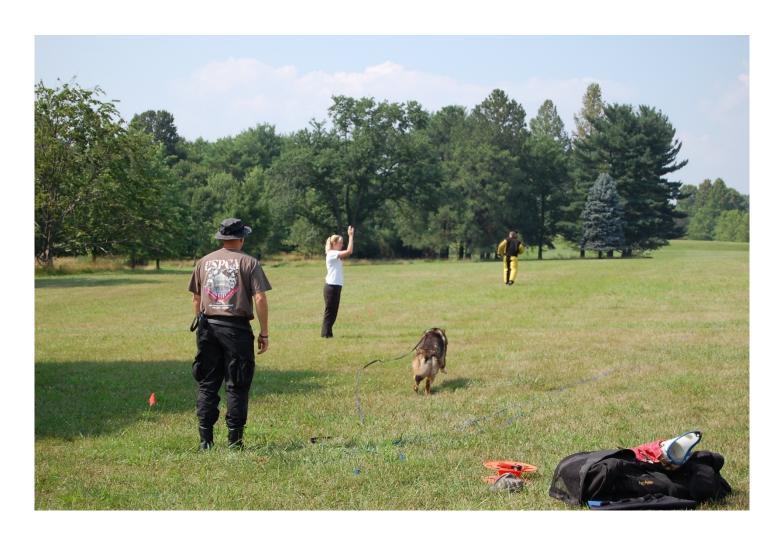


Aggression Training Cont Handler Protection Exercise

- Decoy helper assaults
 K9 handler.
- K9 hanlder utilizes door popper and commands
 K9 to apprehend decoy.



RECALL EXERCISE



7/16/2010

RECALL MADE



7/16/2010

SUSPECT SEARCH EXERCISE



- SEARCH FIELD
 INCLUDES 6 BOXES,
 HINGED FRONT AND
 TOP
- DECOY/HELPER HIDES IN ONE OF THE SIX BOXES.
- K9 COMMNADED TO LOCATE SUSPECT.

Suspect Search Continued





K9 giving alert that suspect is hiding in the box.



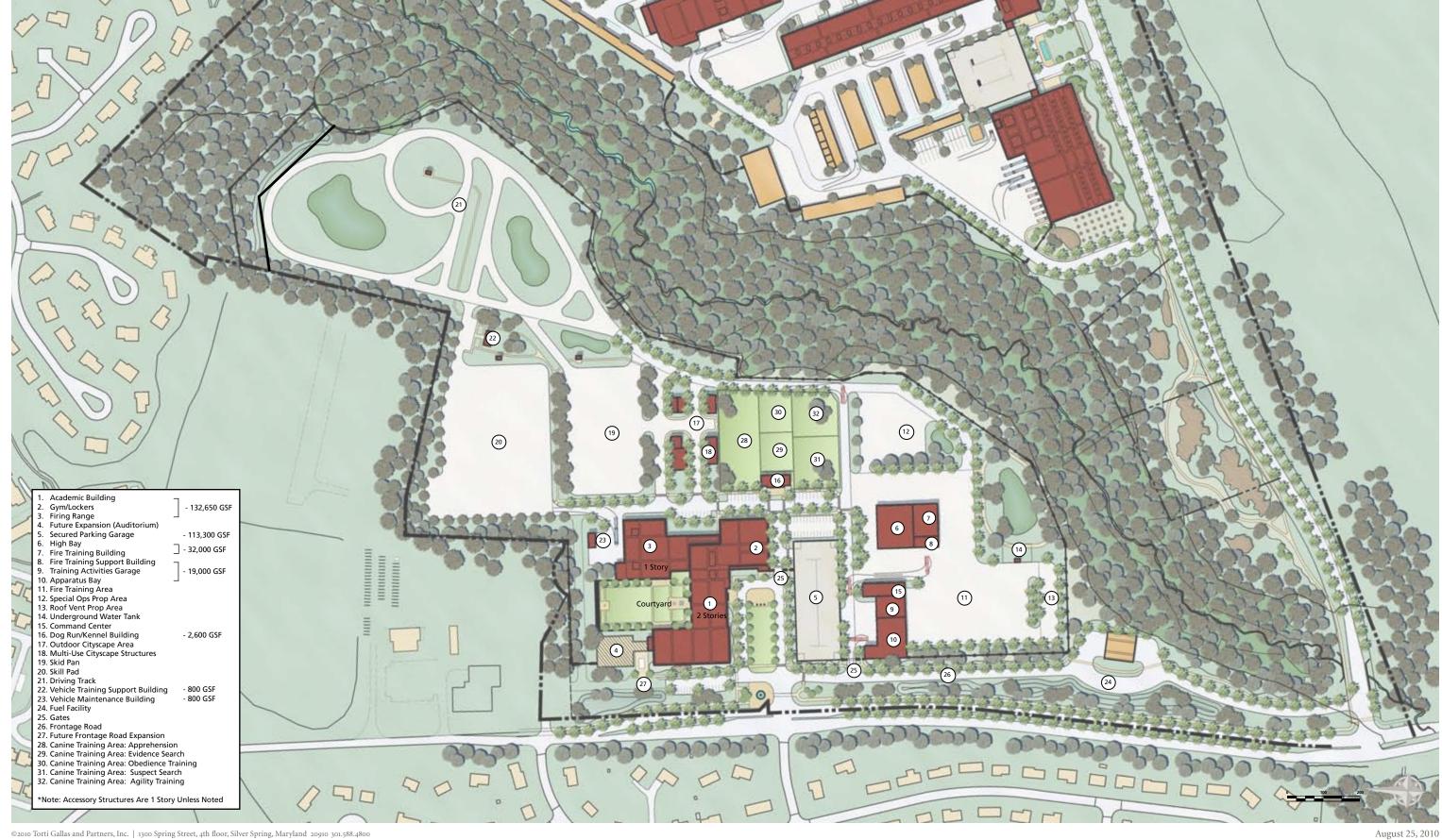
Overall Site Plan - Preliminary Design - Subject to Change

August 23, 2010



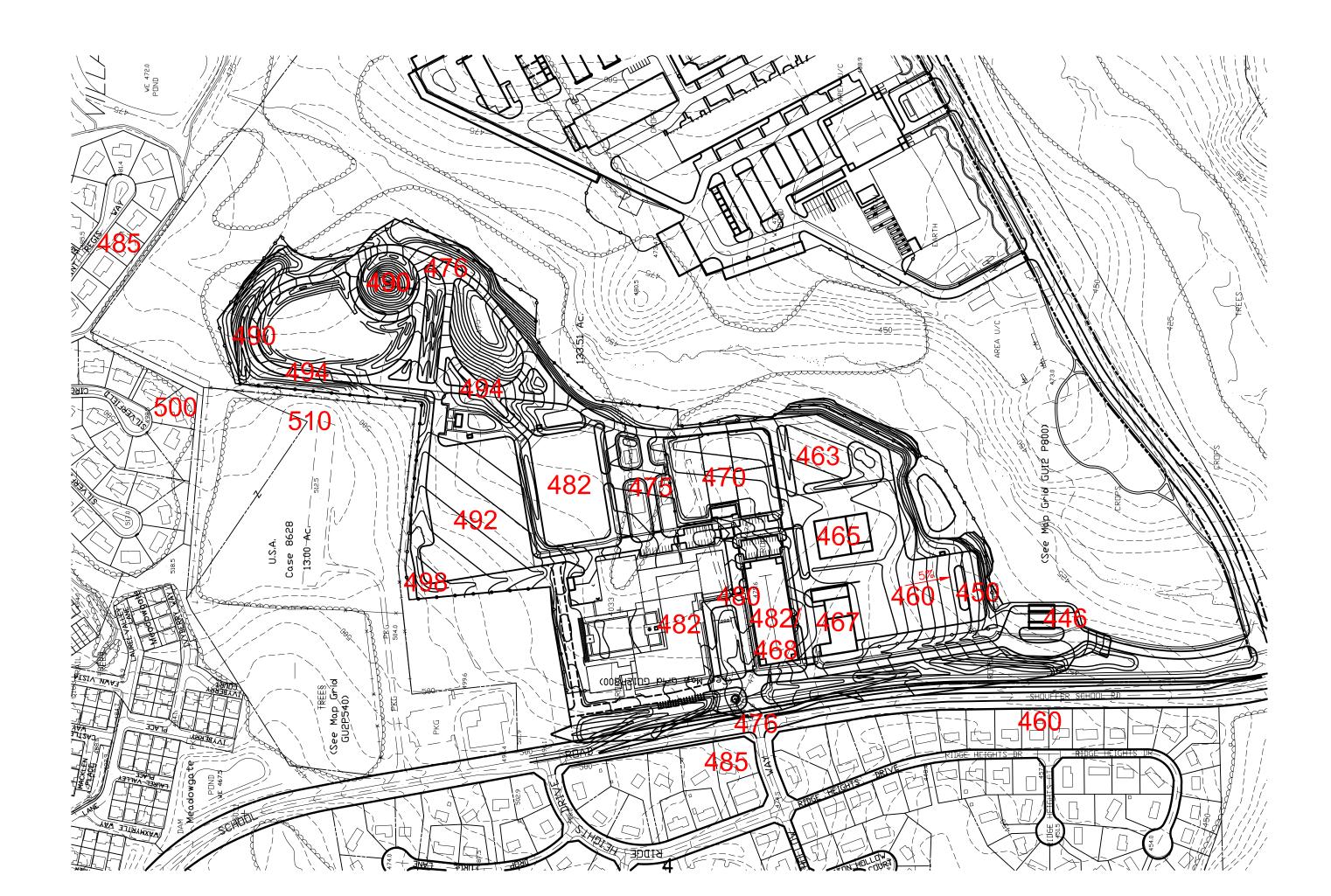
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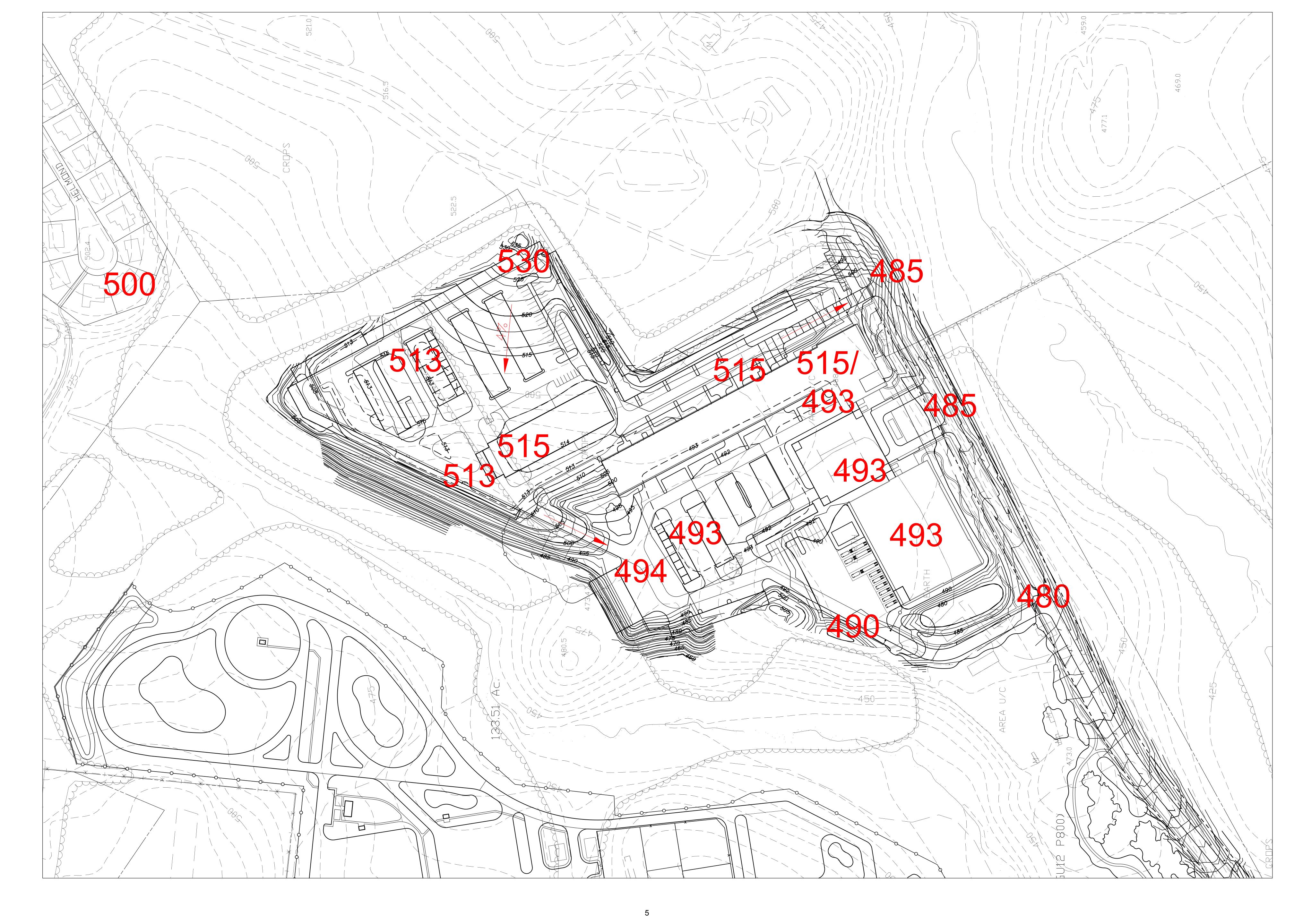
East Side Site Plan - Preliminary Design - Subject to Change

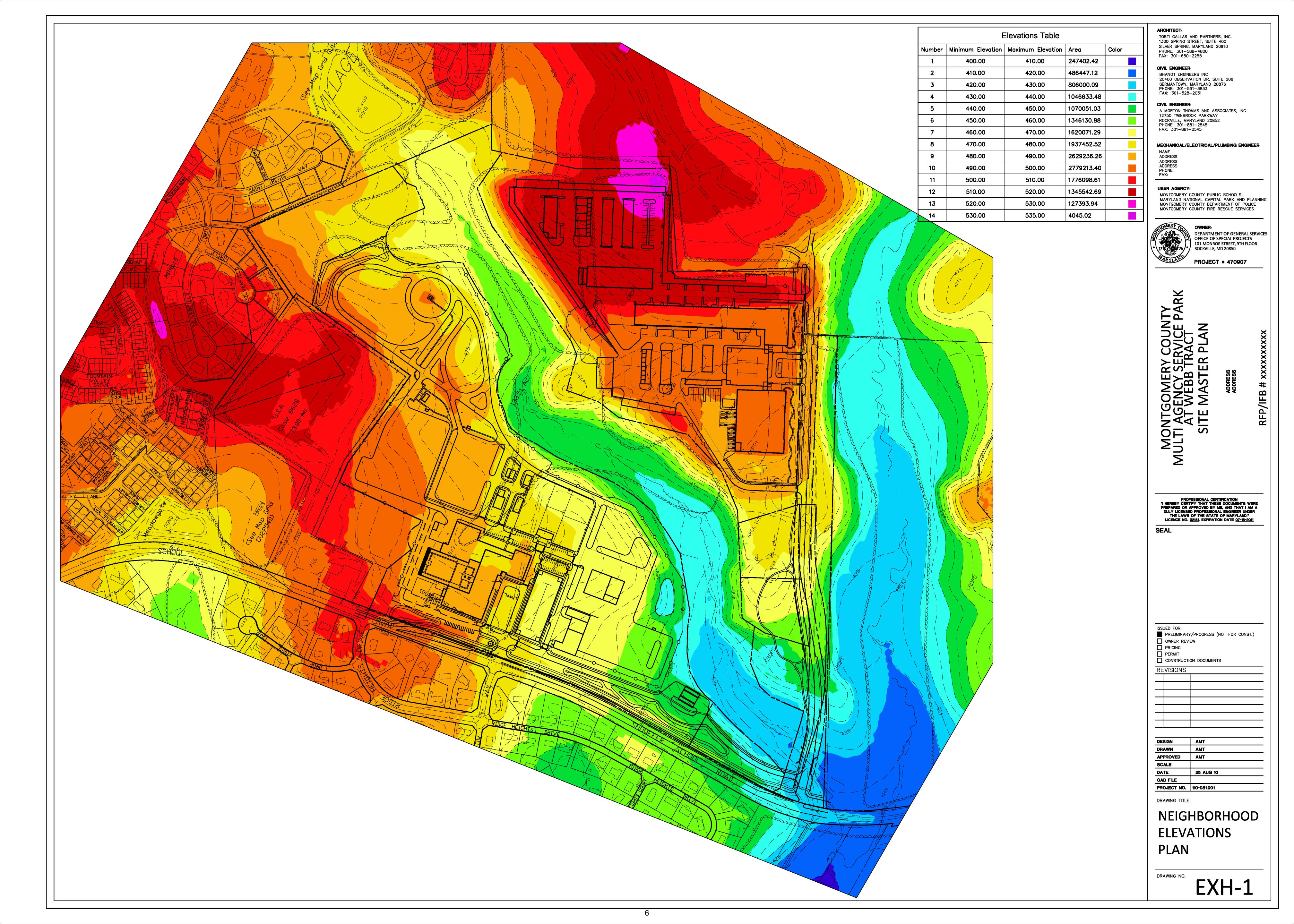


West Side Site Plan - Preliminary Design - Subject to Change

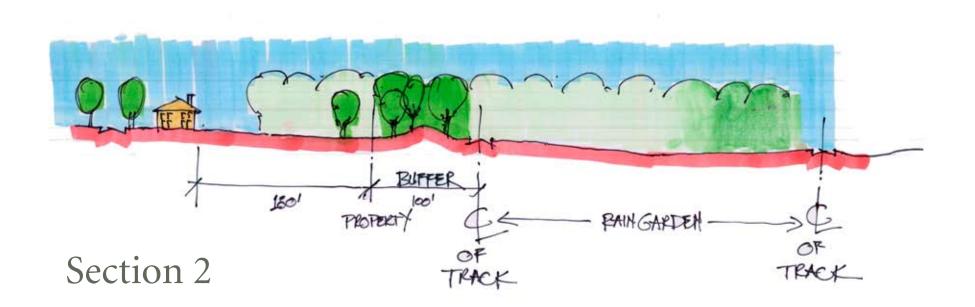
MONTGOMERY COUNTY BEI / AMT / TORTI GALLAS AND PARTNERS

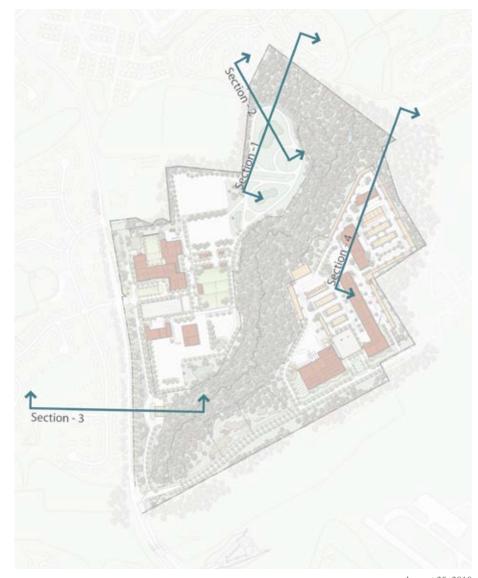








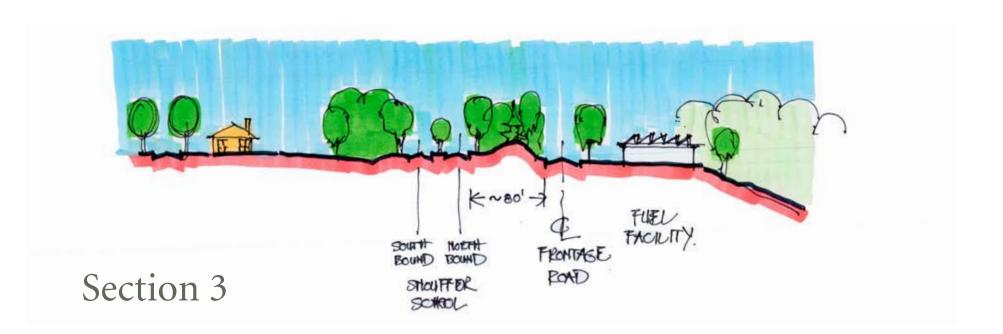


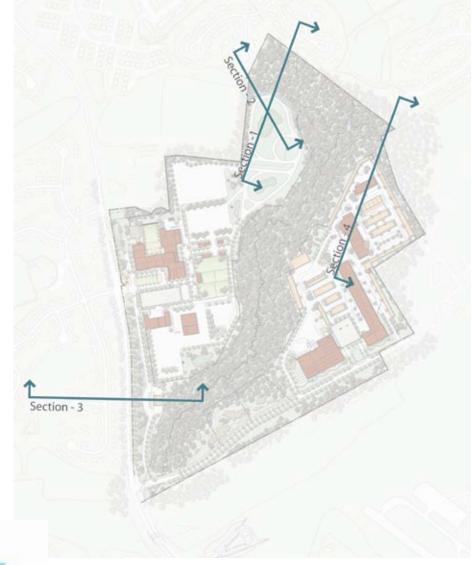


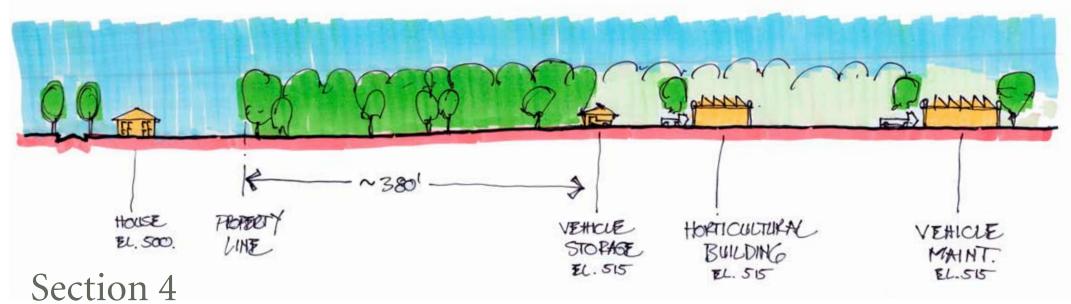
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Site Sections

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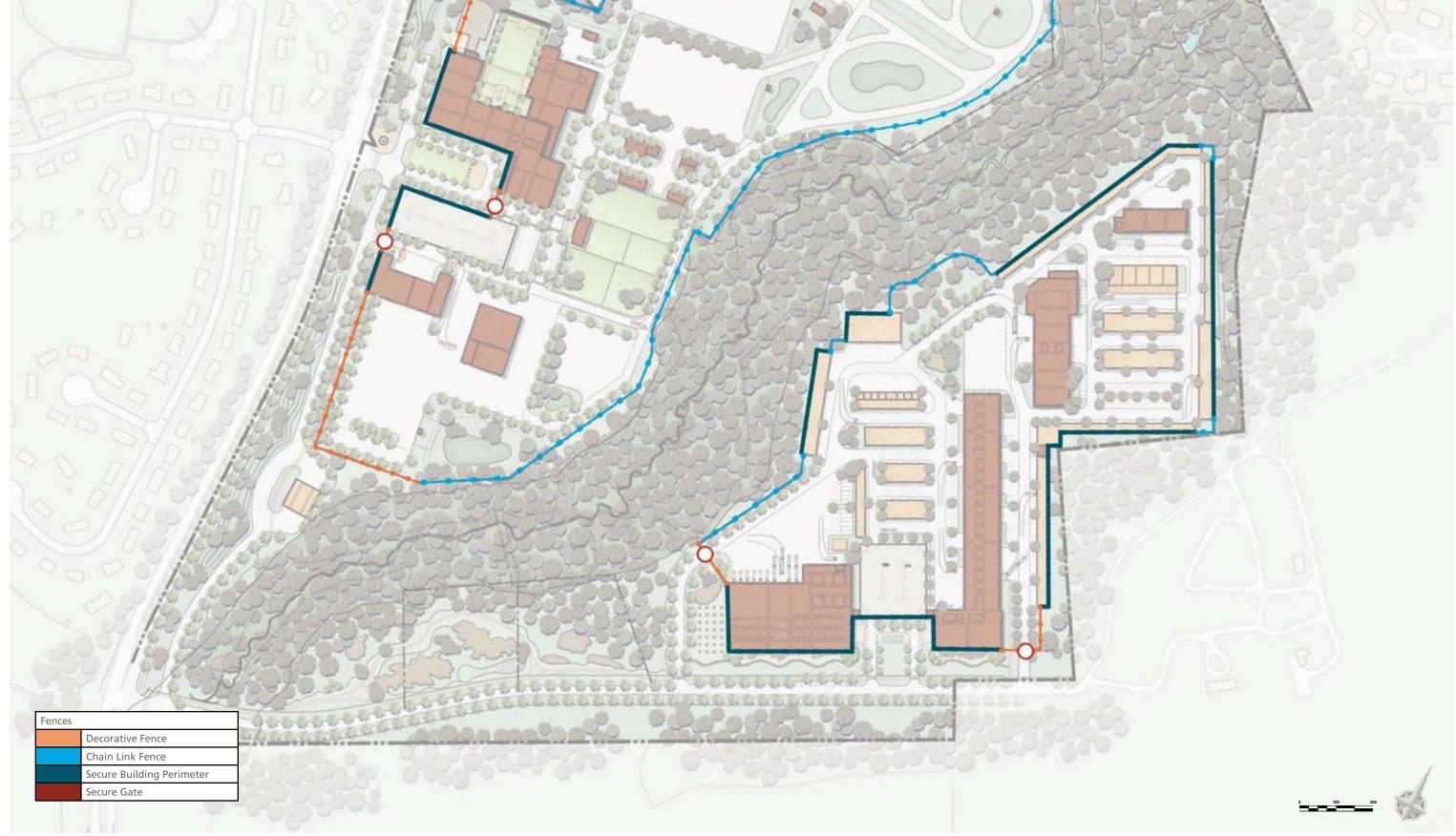






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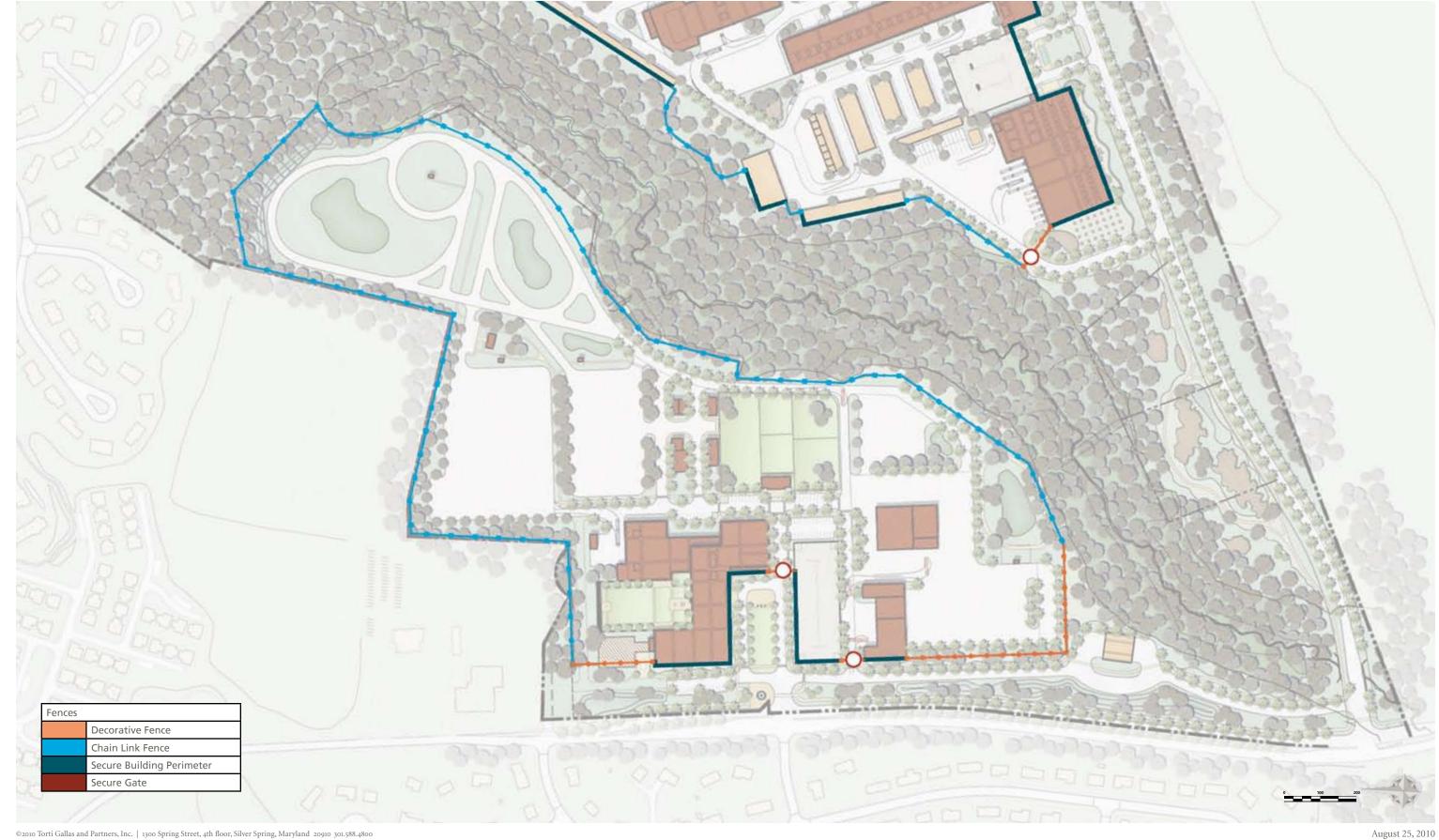
Site Sections



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East Side Site Plan: Fence Diagram - Preliminary Design - Subject to Change

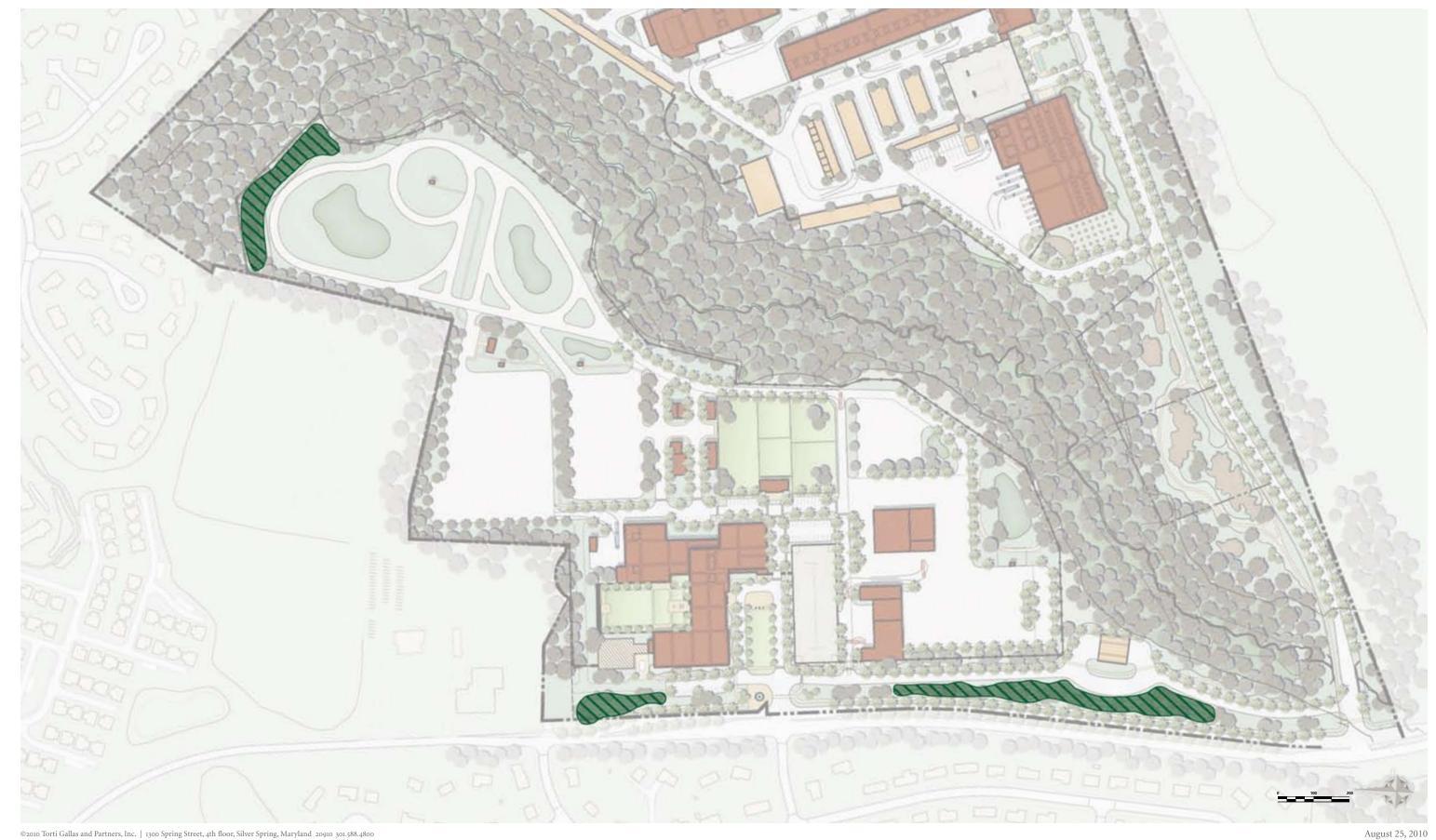
WEBB TRACT



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West Side Site Plan: Fence Diagram - Preliminary Design - Subject to Change

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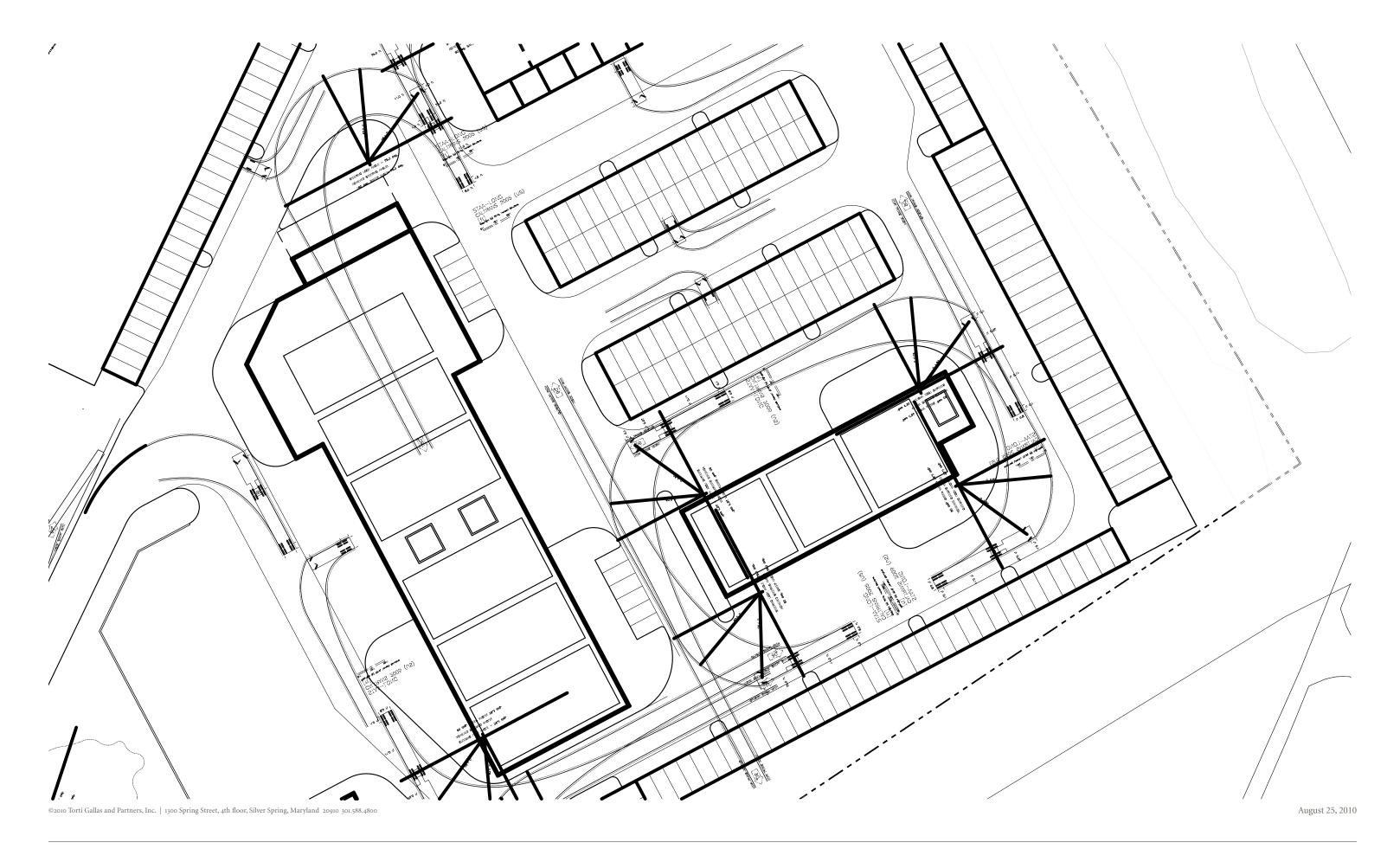


West Side Site Plan: Berm Diagram - Preliminary Design - Subject to Change

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Noise Analysis Methodology

- Identify noise sources with users and design team
- Measure sound levels 50 feet from each noise source
- Extrapolate noise levels in community correcting for distance
- Compare noise levels to ordinance to see where mitigation needed
- Future analysis to develop noise mitigation measures:
 - Shielding by buildings, topography, berms, noise walls
 - Management of activities, times, locations of use



Sound Analysis by Hush Acoustics

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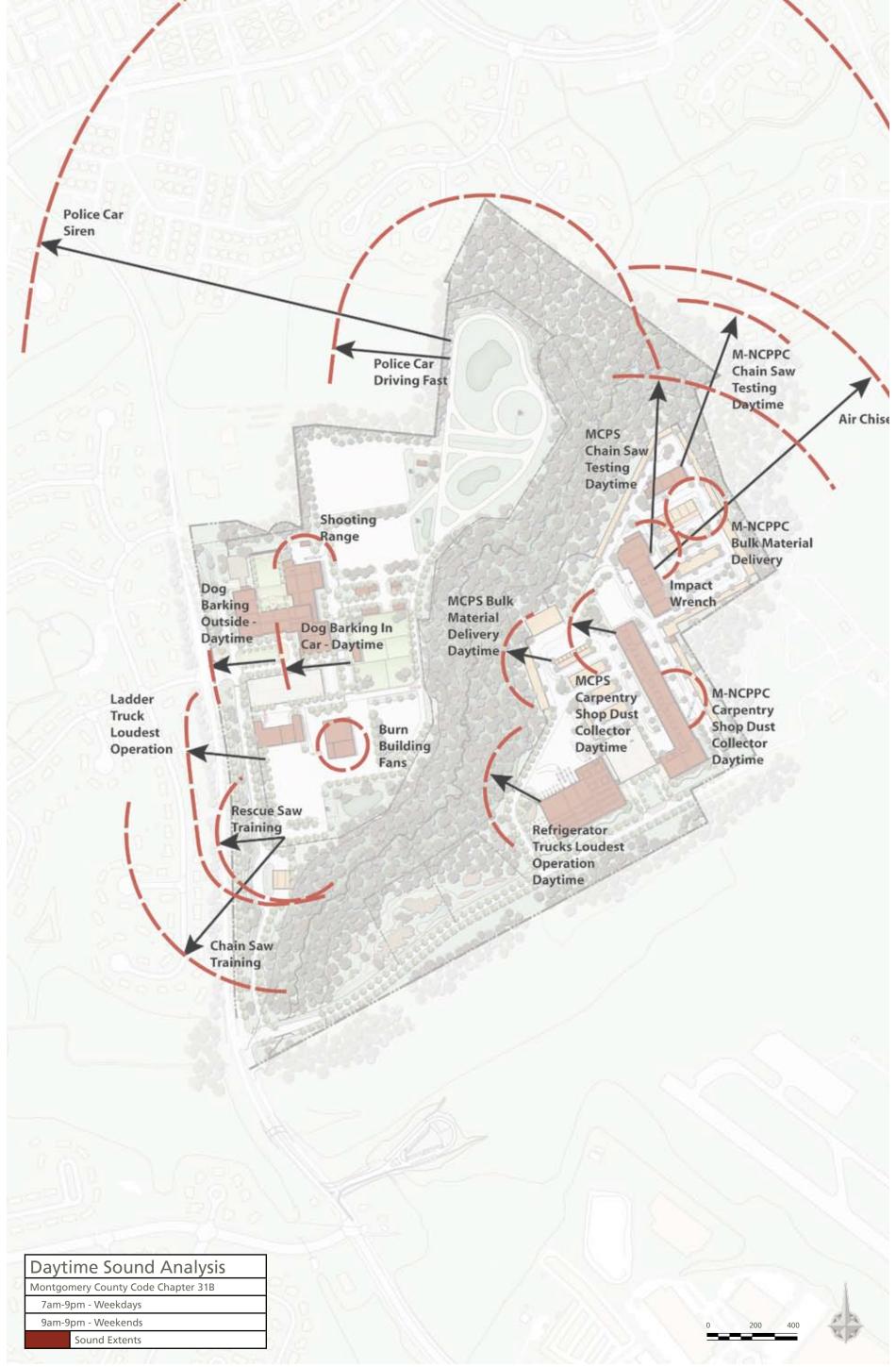
Noise Ordinance Limits

- Daytime
 - 7 am to 9 pm weekdays, 9 am to 9 pmweekends/holidays
 - 65 dB at residential area
- Nighttime
 - 55 dB at residential area
- Tonal or impulsive 5 points stricter
- Limits are maximums not averages
- Emergency operations exempt



Sound Analysis by Hush Acoustics

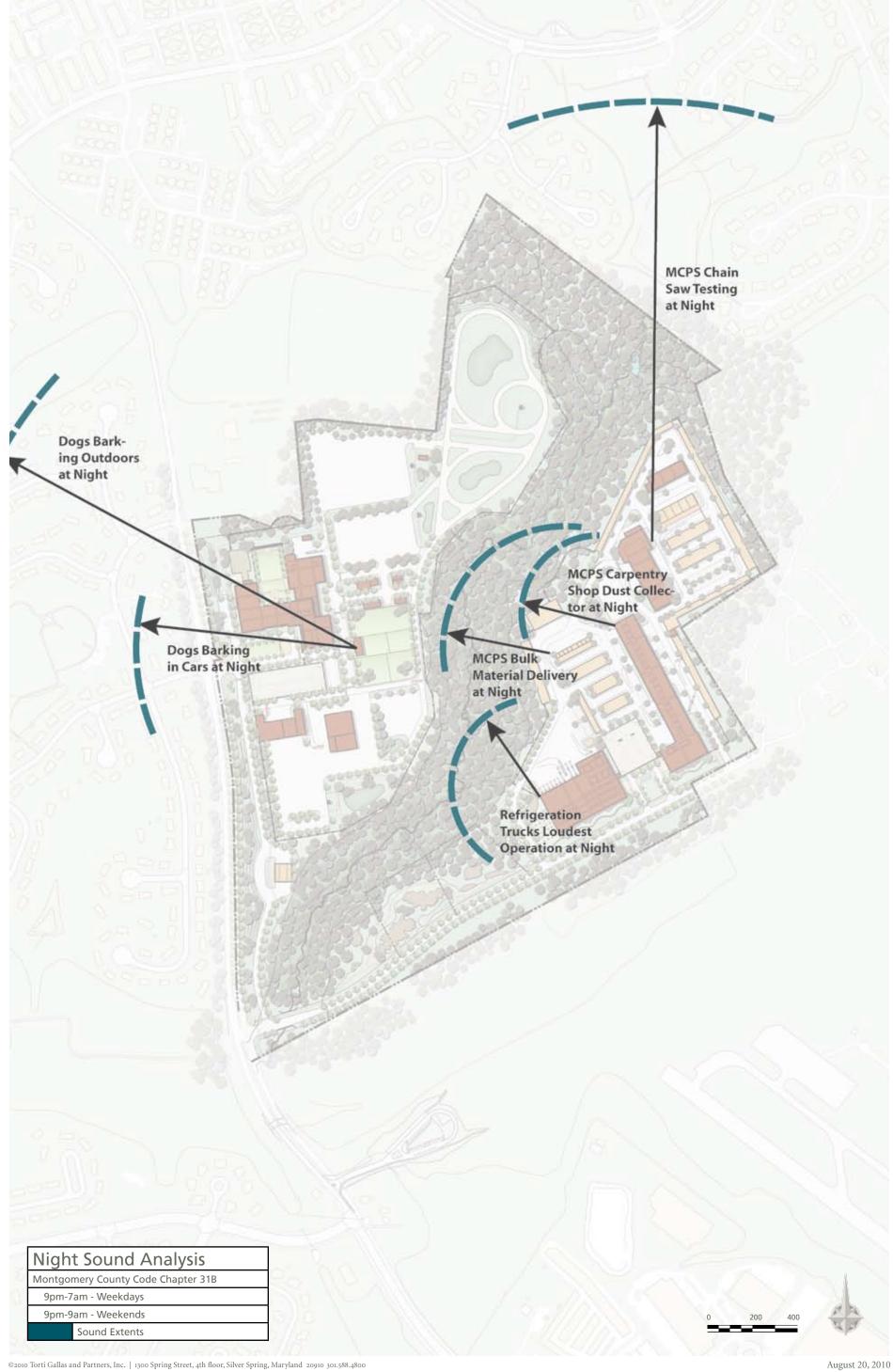
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Overall Site Plan: Day Sound Analysis - Preliminary Design - Subject to Change

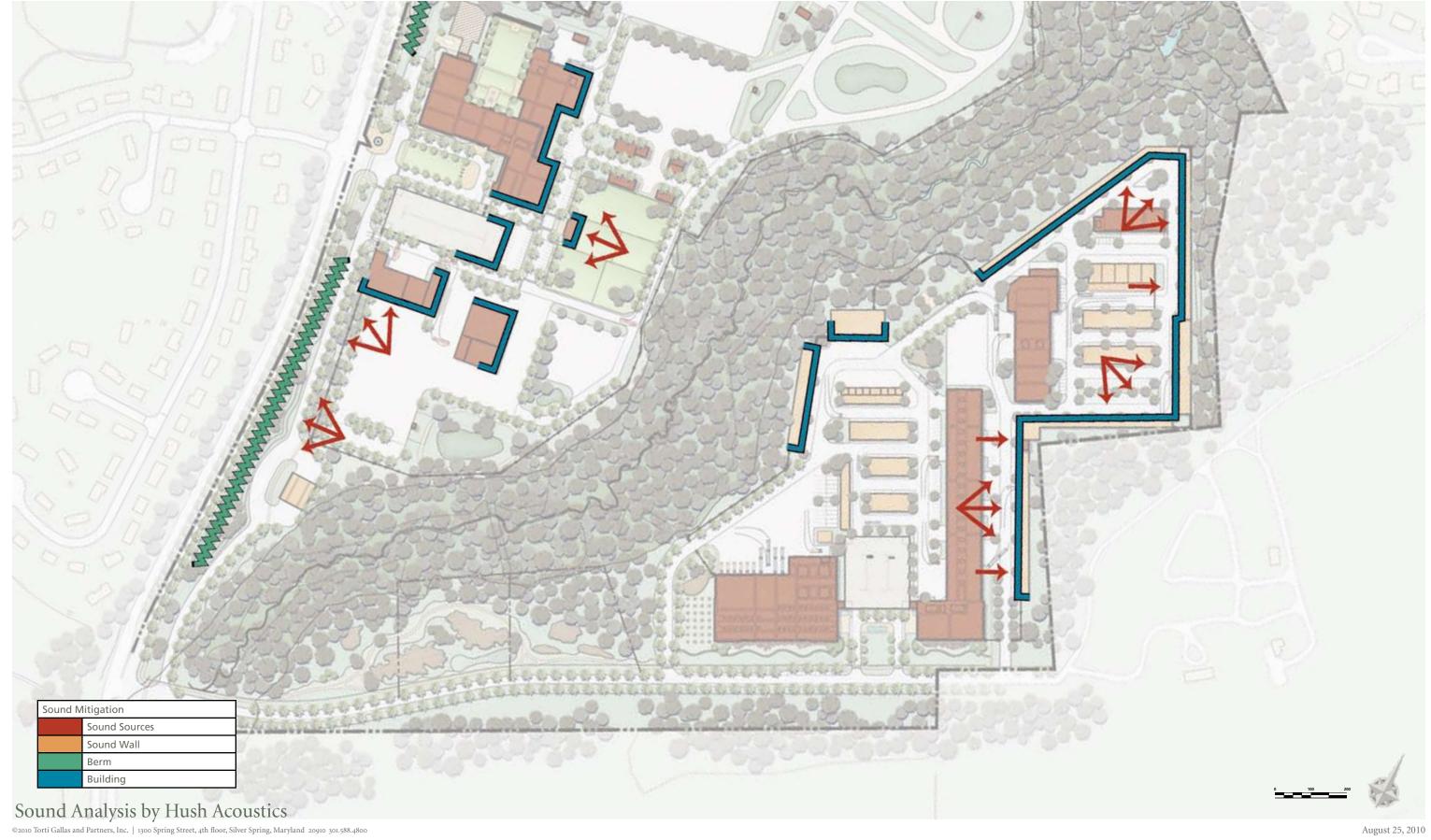
August 20, 2010



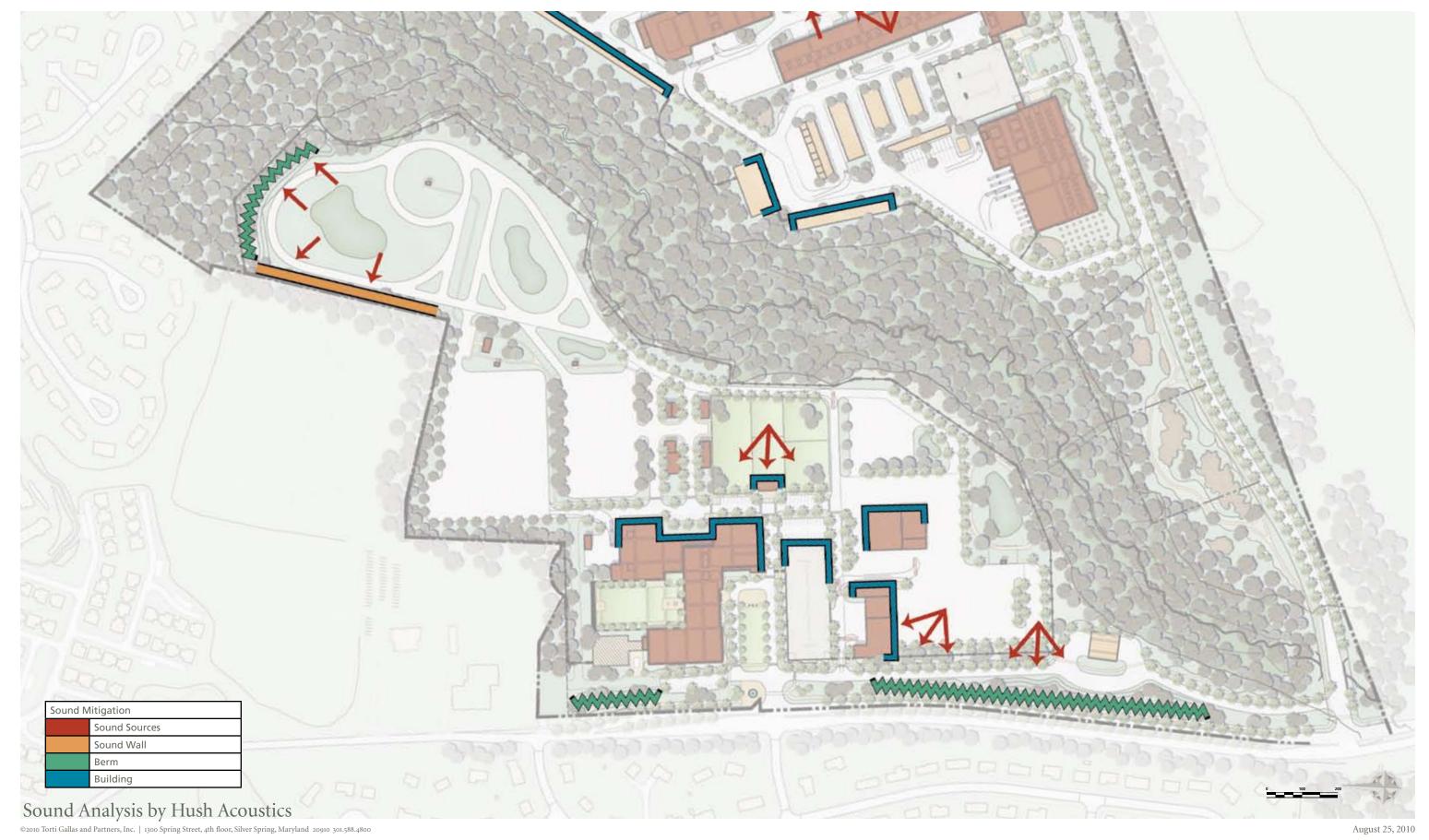
©2010 Torti Gallas and Partners, Inc. | 1300 Spring Street, 4th floor, Silver Spring, Maryland 20910 301.588.4800 Overall Site Plan: Night Sound Analysis - Preliminary Design - Subject to Change



Overall Site Plan: Sound Mitigation Strategies - Preliminary Design - Subject to Change



East Side Site Plan: Sound Mitigation - Preliminary Design - Subject to Change



West Side Site Plan: Sound Mitigation - Preliminary Design - Subject to Change

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LEED® Credit Scorecard

Webb Tract

LEED-2009 Green Building Rating System, version 3.0

Client: Montgomery County



PRELIMINARY SCORE CARD

								Possible Points	110
		d 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 or more p	points		Matau	iala 9 Dagannaa			11
Y ? N		inable Sites Possible Points 26	Y	? N		ials & Resources		Possible Points	14
Y ////////////////////////////////////	Prereq 1	Construction Activity Pollution Prevention P	Y	: IN	Prereq 1	Storage & Collection of Recyclab	ales		P
1	Credit 1	Site Selection 1	- 7	1	Credit 1.1	Building Reuse: Maintain 55% of			1
5	Credit 2	Development Density & Community Connectivity 5		1					1
1		Brownfield Redevelopment 1		1			_		1
6	Credit 4.1	Alt. Transportation: Public Transportation Access 6		1		Building Reuse: Maintain 50% of	_	nts	1
1	Credit 4.2	Alt. Transportation: Bicycle Storage & Changing Rooms 1	1	-	Credit 2.1	Construction Waste Managemen			1
3	Credit 4.3	Alt. Transportation: Low Emitting & Fuel Efficient Vehicles 3	1		Credit 2.2		_		1
2	Credit 4.4	Alt. Transportation: Parking Capacity 2	1		Credit 3.1	Materials Reuse: 5%			1
1	Credit 5.1	Site Development: Protect or Restore Habitat 1		1	Credit 3.2	Materials Reuse: 10%			1
1	Credit 5.2	Site Development: Maximize Open Space 1	1		Credit 4.1	Recycled Content: 10% (post-cor	nsumer + 1/2 pre-consumer)		1
1	Credit 6.1	Stormwater Design: Quantity Control	1		Credit 4.2				1
1	Credit 6.2	Stormwater Design: Quality Control 1	1		Credit 5.1	Regional Materials: 10% Extracte		Regionally	1
1	Credit 7.1	Heat Island Effect: Non-Roof 1	1		Credit 5.2	Regional Materials: 20% Extracte	ed, Processed & Manufactured	Regionally	1
1	Credit 7.2	Heat Island Effect: Roof 1	1		Credit 6	Rapidly Renewable Materials			1
1	Credit 8	Light Pollution Reduction 1	1		Credit 7	Certified Wood			1
	Water	Efficiency Possible Points 10			Indoo	r Environmental Quality		Possible Points	15
Y ? N	_	•	Y	? N	_	-			
Υ ////////////////////////////////////	Prereq 1	Water Use Reduction, 20% Reduction	Y		Prereq 1	Minimum IAQ Performance			Р
2	Credit 1.1	Water Eff. Landscaping: Reduce by 50% 2	Y		Prereq 2	Environmental Tobacco Smoke (ETS) Control		Р
2	Credit 1.2	Water Eff. Landscaping: No Potable Use or No Irrigation 2	1		Credit 1	Outdoor Air Delivery Monitoring			1
2	Credit 2	Innovative Wastewater Technologies 2		1	Credit 2	Increased Ventilation			1
2	Credit 3.1	Water Use Reduction: 30% Reduction 2	1		Credit 3.1	Construction IAQ Management P	lan: During Construction		1
1	Credit 3.2	Water Use Reduction: 35% Reduction 1	1		Credit 3.2	· · · · · · · · · · · · · · · · · · ·			1
1	Credit 3.3	Water Use Reduction: 40% Reduction 1	1		Credit 4.1	Low-Emitting Materials: Adhesiv			1
	I E	- 0 Atm	1		Credit 4.2	3			1
		y & Atmosphere Possible Points 35	1		Credit 4.3	· · · · · · · · · · · · · · · · · · ·			1
Y ? N	///	Foundamental Communication Publisher Foreign Contains	1	4	Credit 4.4	Low-Emitting Materials: Compos	_		1
Y	Prereq 1	Fundamental Comm. of the Building Energy Systems P		1	Credit 5	Indoor Chemical & Pollutant Sou			1
Y	Prereq 2	Minimum Energy Performance P CFC Reduction in HVAC&R Equipment P	1		Credit 6.1 Credit 6.2	Controllability of Systems: Light	_		1
2	Prereq 3 Credit 1	Opt. Energy Perf.: 12%, 14% New / 10% Existing 2	1		Credit 7.1	Controllability of Systems: Thern Thermal Comfort: Design	nai Connort		1
2	Credit 1	Opt. Energy Perf.: 16%, 18% New / 14% Existing 2	1		Credit 7.1				1
2	Credit 1	Opt. Energy Perf.: 20%, 22% New / 18% Existing 2	-	1	Credit 8.1	Daylight & Views: Daylight 75% of	of Snaces		1
2	Credit 1	Opt. Energy Perf.: 24%,26% New / 22% Existing 2		1	Credit 8.2				1
2	Credit 1	Opt. Energy Perf.: 28%, 30% New / 26% Existing 2				= -,g 1.0 1.0 101 00 /0			-
2	Credit 1	Opt. Energy Perf.: 32%, 34% New / 30% Existing 2			Innov	ation & Design Process		Possible Points	6
2	Credit 1	Opt. Energy Perf.: 36%, 38% New / 34% Existing 2	Y	? N	_				
2	Credit 1	Opt. Energy Perf.: 40%, 42% New / 38% Existing 2	1		Credit 1.1	Innovation in Design:	Reduced Footprint		1
3	Credit 1	Opt. Energy Perf.: 44%, 46%, 48% New / 44% Existing 3		1	Credit 1.2	Innovation in Design:	Demonstration Farm?		1
1	Credit 2	On-Site Renewable Energy: 1%		1	Credit 1.3	Innovation in Design:	Educational Displays?		1
1	Credit 2	On-Site Renewable Energy: 3%		1	Credit 1.4	Innovation in Design:			1
1	Credit 2	On-Site Renewable Energy: 5% 1		1	Credit 1.5	Innovation in Design:			1
1	Credit 2	On-Site Renewable Energy: 7% 1	1		Credit 2	LEED™ Accredited Professional			1
1	Credit 2	On-Site Renewable Energy: 9%							
1	Credit 2	On-Site Renewable Energy: 11%			Regio	nal Priority Credits		Possible Points	4
1	Credit 2	On-Site Renewable Energy: 13%	Y	? N		<u> </u>			
2	Credit 3	Enhanced Commissioning 2	1		Credit 1.1	Regional Priority	SS c6.1		1
2	Credit 4	Enhanced Refrigerant Management 2	1		Credit 1.2	•	WE c2		1
3	Credit 5	Measurement & Verification 3	1		Credit 1.3		EA c2 (1%)		1
2	Credit 6	Green Power 2	1		Credit 1.4	•	MR c2.1		1

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_				-
3		Credit 4.3	Alt. Transportation: Low Emitting & Fuel Efficient Vehicles	3
2		Credit 4.4	Alt. Transportation: Parking Capacity	2
	1	Credit 5.1	Site Development: Protect or Restore Habitat	1
1		Credit 5.2	Site Development: Maximize Open Space	1
1		Credit 6.1	Stormwater Design: Quantity Control	1
1		Credit 6.2	Stormwater Design: Quality Control	1

To conserve exisiting natural Areas and restore damaged areas to provide habitat and promote biodiversity

Requirement

Restore or protect a minimum of 50% of the site (excluding building footprint) or 20% of the total site area (including building footprint), whichever is greater, with native or adapted vegetation.



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			Sustai	i nable Sites Possible Poir	nts 26
Υ	?	N			
Υ			Prereq 1	Construction Activity Pollution Prevention	Р
1			Credit 1	Site Selection	1
	5		Credit 2	Development Density & Community Connectivity	5
		1	Credit 3	Brownfield Redevelopment	1
	6		Credit 4.1	Alt. Transportation: Public Transportation Access	6
1			Credit 4.2	Alt. Transportation: Bicycle Storage & Changing Rooms	1
3			Credit 4.3	Alt. Transportation: Low Emitting & Fuel Efficient Vehicles	3
2			Credit 4.4	Alt. Transportation: Parking Capacity	2
	1		Credit 5.1	Site Development: Protect or Restore Habitat	1
1			Credit 5.2	Site Development: Maximize Open Space	1
1			Credit 6.1	Stormwater Design: Quantity Control	1
1			Credit 6.2	Stormwater Design: Quality Control	1
1			Credit 7.1	Heat Island Effect: Non-Roof	1
1			Credit 7.2	Heat Island Effect: Roof	1
1			Credit 8	Light Pollution Reduction	1

1	Credit 5.2	Site Development: Maximize Open Space	1
1	Credit 6.1	Stormwater Design: Quantity Control	1
1	Credit 6.2	Stormwater Design: Quality Control	1
1	Credit 7.1	Heat Island Effect: Non-Roof	1
1	Credit 7.2	Heat Island Effect: Roof	1
1	Credit 8	Light Pollution Reduction	1

To limit disruption and pollution of natural water flows by managing stormwater runoff

Requirement

Impliment a stormwater management plan that reduces impervious cover, promotes infiltration and captures and treats the stormwater runoff from 90% of the aerage annual rainfall using acceptable best management practices.



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1	Credit 6.2	Stormwater Design: Quality Control		1
1	Credit 7.1	Heat Island Effect: Non-Roof		1
1	Credit 7.2	Heat Island Effect: Roof		1
1	Credit 8	Light Pollution Reduction		1
	Water	Efficiency	Possible Points	10

To reduce heat islands to minimize impacts on microclimates and human and wildlife habitats.

Requirement

Use roofing materials with a high solar reflectance index for a minimum of 75% of the roof surface OR

Install a vegetated roof that covers at least 50% of the roof area.

OR

The appropriate combination of both.



August 25, 2010

			Water	Efficiency	Possible Points	10
Υ	?	N				
Υ			Prereq 1	Water Use Reduction, 20% Reduction		Р
2			Credit 1.1	Water Eff. Landscaping: Reduce by 50%		2
2			Credit 1.2	Water Eff. Landscaping: No Potable Use or No Irrigation		2
2			Credit 2	Innovative Wastewater Technologies		2
2			Credit 3.1	Water Use Reduction: 30% Reduction		2
	1		Credit 3.2	Water Use Reduction: 35% Reduction		1
	1		Credit 3.3	Water Use Reduction: 40% Reduction		1

Υ		//////////// F	Prereq 1	Water Use Reduction, 20% Reduction	Р
2		C	Credit 1.1	Water Eff. Landscaping: Reduce by 50%	2
2		C	Credit 1.2	Water Eff. Landscaping: No Potable Use or No Irrigation	2
2			Credit 2	Innovative Wastewater Technologies	2
2			Credit 3.1	Water Use Reduction: 30% Reduction	2
	1		Credit 3.2	Water Use Reduction: 35% Reduction	1 _

To limit or eliminate the use of potable water or other natural surface or subsurface water resources available on or near the project site for landscape irrigation.

Requirement

Reduce potable water consumption for irrigation by 50% from a calculated midsummer baseline grid

AND

Use only captured rainwater, recycled wastewater, recycled graywater or water treated and conveyed by a public agency specifically for nonpotable uses for irrigation.

OR

Install Landscaping that does not require permanent irrigation systems.



August 25, 2010

		Energy	/ & Atmosphere	Possible Points 35
Υ	? N			
Y		Prereq 1	Fundamental Comm. of the Building Energy Systems	P
Y		Prereq 2	Minimum Energy Performance	Р
Y		Prereq 3	CFC Reduction in HVAC&R Equipment	P
2		Credit 1	Opt. Energy Perf.: 12%, 14% New / 10% Existing	2
2		Credit 1	Opt. Energy Perf.: 16%, 18% New / 14% Existing	2
2		Credit 1	Opt. Energy Perf.: 20%, 22% New / 18% Existing	2
2		Credit 1	Opt. Energy Perf.: 24%,26% New / 22% Existing	2
2		Credit 1	Opt. Energy Perf.: 28%, 30% New / 26% Existing	2
	2	Credit 1	Opt. Energy Perf.: 32%, 34% New / 30% Existing	2
	2	Credit 1	Opt. Energy Perf.: 36%, 38% New / 34% Existing	2
	2	Credit 1	Opt. Energy Perf.: 40%, 42% New / 38% Existing	2
	3	Credit 1	Opt. Energy Perf.: 44%, 46%, 48% New / 44% Existing	3
1		Credit 2	On-Site Renewable Energy: 1%	1
1		Credit 2	On-Site Renewable Energy: 3%	1
	1	Credit 2	On-Site Renewable Energy: 5%	1
	1	Credit 2	On-Site Renewable Energy: 7%	1
	1	Credit 2	On-Site Renewable Energy: 9%	1
	1	Credit 2	On-Site Renewable Energy: 11%	1
	1	Credit 2	On-Site Renewable Energy: 13%	1
2		Credit 3	Enhanced Commissioning	2
2		Credit 4	Enhanced Refrigerant Management	2
3		Credit 5	Measurement & Verification	3
2		Credit 6	Green Power	2

• (//////	////////	or o modaduom minimaski Equipmoni	
2	Credit 1	Opt. Energy Perf.: 12%, 14% New / 10% Existing	2
2	Credit 1	Opt. Energy Perf.: 16%, 18% New / 14% Existing	2
2	Credit 1	Opt. Energy Perf.: 20%, 22% New / 18% Existing	2
2	Credit 1	Opt. Energy Perf.: 24%,26% New / 22% Existing	2
2	Credit 1	Opt. Energy Perf.: 28%, 30% New / 26% Existing	2
2	Credit 1	Opt. Energy Perf.: 32%, 34% New / 30% Existing	2

To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

Requirement

Whole Building Energy Simulation Demonstrate a percentage improvement in the proposed building performance rating compared with the baseline building performance rating.



August 25, 2010

			Materi	als & Resources Possible Poi	ints 14
Y	?	N			
Y			Prereq 1	Storage & Collection of Recyclables	Р
		1	Credit 1.1	Building Reuse: Maintain 55% of Existing Walls, Floors & Roof	1
		1	Credit 1.2	Building Reuse: Maintain 75% of Existing Walls, Floors & Roof	1
		1	Credit 1.3	Building Reuse: Maintain 95% of Existing Walls, Floors & Roof	1
		1	Credit 1.4	Building Reuse: Maintain 50% of Interior Non-Structural Elements	1
1			Credit 2.1	Construction Waste Management: Divert 50% from Disposal	1
1			Credit 2.2	Construction Waste Management: Divert 75% from Disposal	1
1			Credit 3.1	Materials Reuse: 5%	1
	1		Credit 3.2	Materials Reuse: 10%	1
1			Credit 4.1	Recycled Content: 10% (post-consumer + 1/2 pre-consumer)	1
1			Credit 4.2	Recycled Content: 20% (post-consumer + 1/2 pre-consumer)	1
1			Credit 5.1	Regional Materials: 10% Extracted, Processed & Manufactured Regionally	1
1			Credit 5.2	Regional Materials: 20% Extracted, Processed & Manufactured Regionally	1
1			Credit 6	Rapidly Renewable Materials	1
1			Credit 7	Certified Wood	1

			Indoor	Environmental Quality	Possible Points	15
Υ	?	N				
Υ			Prereq 1	Minimum IAQ Performance		P
Υ			Prereq 2	Environmental Tobacco Smoke (ETS) Control		Р
1			Credit 1	Outdoor Air Delivery Monitoring		1
	1		Credit 2	Increased Ventilation		1
1			Credit 3.1	Construction IAQ Management Plan: During Construction		1
1			Credit 3.2	Construction IAQ Management Plan: Before Occupancy		1
1			Credit 4.1	Low-Emitting Materials: Adhesives & Sealants		1
1			Credit 4.2	Low-Emitting Materials: Paints & Coatings		1
1			Credit 4.3	Low-Emitting Materials: Flooring Systems		1
1			Credit 4.4	Low-Emitting Materials: Composite Wood & Agrifiber Products		1
	1		Credit 5	Indoor Chemical & Pollutant Source Control		1
1			Credit 6.1	Controllability of Systems: Lighting		1
1			Credit 6.2	Controllability of Systems: Thermal Comfort		1
1			Credit 7.1	Thermal Comfort: Design		1
1			Credit 7.2	Thermal Comfort: Verification		1
	1		Credit 8.1	Daylight & Views: Daylight 75% of Spaces		1
	1		Credit 8.2	Daylight & Views: Views for 90% of Spaces		1

			Innova	ation & Design Process		Possible Points	6
Υ	?	N					
1			Credit 1.1	Innovation in Design:	Reduced Footprint		1
	1		Credit 1.2	Innovation in Design:	Demonstration Farm?		1
	1		Credit 1.3	Innovation in Design:	Educational Displays?		1
	1		Credit 1.4	Innovation in Design:			1
			Cradit 1 E	Innovation in Design			1
	1		Credit 1.5	Innovation in Design:			•
1	1		Credit 1.5	LEED™ Accredited Professional			1
1	1		-	•			1
1	1		Credit 2	•		Possible Points	1 4
1	?	N	Credit 2	LEED™ Accredited Professional		Possible Points	1
1 Y	?	N	Credit 2	LEED™ Accredited Professional	SS c6.1	Possible Points	1 4 1
1 Y 1	?	N	Credit 2	LEED™ Accredited Professional nal Priority Credits		Possible Points	1 1 1
1	?	N	Credit 2 Regio	LEED™ Accredited Professional nal Priority Credits Regional Priority	SS c6.1	Possible Points	1 1 1 1

SUSTAINABILITY PYF Achieving Sustainability & a "Zero Carbon Footprint"

GADGETS

URBAN DESIGN/SMART LOCATION

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